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L11	L10 and (sustained release dosage form)	892	<u>L11</u>
L10	L9 and (reduce restenosis)	894	<u>L10</u>
L9	L8 and (non-biodegradable)	1058	<u>L9</u>
L8	L7 and kinase inhibitor	82604	<u>L8</u>
L7	suramin and (vascular smooth muscle cell migration inhibition)	1493	<u>L7</u>
L6	L1 and (inhibit protein synthesis)	1	<u>L6</u>
L5	L1 and (cytotoxicity)	1	<u>L5</u>
L4	l1 and (free therapeutic agent)	1	<u>L4</u>
L3	l1 and free therapeutic agent	267819	<u>L3</u>
L2	L1 and non-biodegradable	1	<u>L2</u>
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1. Document ID: US 20060004437 A1

L13: Entry 1 of 18

File: PGPB

Jan 5, 2006

PGPUB-DOCUMENT-NUMBER: 20060004437

PGPUB-FILING-TYPE:

DOCUMENT-IDENTIFIER: US 20060004437 A1

TITLE: Structurally variable stents

PUBLICATION-DATE: January 5, 2006

INVENTOR-INFORMATION:

NAME	CITY	STATE	COUNTRY
Jayaraman; Swaminathan	Fremont	CA	US

US-CL-CURRENT: 623/1.16; 623/1.42[Full](#) | [Title](#) | [Citation](#) | [Front](#) | [Review](#) | [Classification](#) | [Date](#) | [Reference](#) | [Sequences](#) | [Attachments](#) | [Claims](#) | [KDDC](#) | [Draw Desc](#) | [Image](#)

2. Document ID: US 20050158333 A1

L13: Entry 2 of 18

File: PGPB

Jul 21, 2005

PGPUB-DOCUMENT-NUMBER: 20050158333

PGPUB-FILING-TYPE: new

DOCUMENT-IDENTIFIER: US 20050158333 A1

TITLE: Methods and products related to metabolic interactions in disease

PUBLICATION-DATE: July 21, 2005

INVENTOR-INFORMATION:

NAME	CITY	STATE	COUNTRY
Newell, Martha Karen	Colorado Springs	CO	US

US-CL-CURRENT: 424/185.1; 514/12[Full](#) | [Title](#) | [Citation](#) | [Front](#) | [Review](#) | [Classification](#) | [Date](#) | [Reference](#) | [Sequences](#) | [Attachments](#) | [Claims](#) | [KDDC](#) | [Draw Desc](#) | [Image](#)

3. Document ID: US 20050074882 A1

L13: Entry 3 of 18

File: PGPB

Apr 7, 2005

PGPUB-DOCUMENT-NUMBER: 20050074882

PGPUB-FILING-TYPE: new

DOCUMENT-IDENTIFIER: US 20050074882 A1

TITLE: Methods and products related to metabolic interactions in disease

PUBLICATION-DATE: April 7, 2005

INVENTOR-INFORMATION:

NAME Newell, Martha Karen	CITY Colorado Springs	STATE CO	COUNTRY US
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US-CL-CURRENT: 435/455; 424/85.5, 514/34, 514/558

[Full](#) | [Title](#) | [Citation](#) | [Front](#) | [Review](#) | [Classification](#) | [Date](#) | [Reference](#) | [Sequences](#) | [Attachments](#) | [Claims](#) | [KMD](#) | [Draw Desc](#) | [Ima](#)

4. Document ID: US 20050054563 A1

L13: Entry 4 of 18

File: PGPB

Mar 10, 2005

PGPUB-DOCUMENT-NUMBER: 20050054563

PGPUB-FILING-TYPE: new

DOCUMENT-IDENTIFIER: US 20050054563 A1

TITLE: Methods of treatment using wisp polypeptides

PUBLICATION-DATE: March 10, 2005

INVENTOR-INFORMATION:

NAME Desnoyer, Luc	CITY San Francisco	STATE CA	COUNTRY US
Filvaroff, Ellen H.	San Francisco	CA	US
Pennica, Diane	Burlingame	CA	US

US-CL-CURRENT: 514/12

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5. Document ID: US 20050042224 A1

L13: Entry 5 of 18

File: PGPB

Feb 24, 2005

PGPUB-DOCUMENT-NUMBER: 20050042224

PGPUB-FILING-TYPE: new

DOCUMENT-IDENTIFIER: US 20050042224 A1

TITLE: Methods and products related to metabolic interactions in disease

PUBLICATION-DATE: February 24, 2005

INVENTOR-INFORMATION:

NAME Newell, Martha Karen	CITY Colorado Springs	STATE CO	COUNTRY US
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US-CL-CURRENT: 424/155.1; 514/251, 514/34

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6. Document ID: US 20040243214 A1

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File: PGPB

Dec 2, 2004

PGPUB-DOCUMENT-NUMBER: 20040243214
PGPUB-FILING-TYPE: new
DOCUMENT-IDENTIFIER: US 20040243214 A1

TITLE: Coated stent with protective packaging and method of using same

PUBLICATION-DATE: December 2, 2004

INVENTOR-INFORMATION:

NAME	CITY	STATE	COUNTRY
Farrell, Thomas	Galway		IE
Quinn, Colm	Longford		IE

US-CL-CURRENT: 623/1.11; 206/370, 623/1.46

[Full](#) | [Title](#) | [Citation](#) | [Front](#) | [Review](#) | [Classification](#) | [Date](#) | [Reference](#) | [Sequences](#) | [Attachments](#) | [Claims](#) | [KDDC](#) | [Drawn Desc](#) | [Imgs](#)

7. Document ID: US 20040219223 A1

L13: Entry 7 of 18

File: PGPB

Nov 4, 2004

PGPUB-DOCUMENT-NUMBER: 20040219223
PGPUB-FILING-TYPE: new
DOCUMENT-IDENTIFIER: US 20040219223 A1

TITLE: Therapeutic inhibitor of vascular smooth muscle cells

PUBLICATION-DATE: November 4, 2004

INVENTOR-INFORMATION:

NAME	CITY	STATE	COUNTRY
Kunz, Lawrence L.	Redmond	WA	US

US-CL-CURRENT: 424/489; 623/1.42

[Full](#) | [Title](#) | [Citation](#) | [Front](#) | [Review](#) | [Classification](#) | [Date](#) | [Reference](#) | [Sequences](#) | [Attachments](#) | [Claims](#) | [KDDC](#) | [Drawn Desc](#) | [Imgs](#)

8. Document ID: US 20040181277 A1

L13: Entry 8 of 18

File: PGPB

Sep 16, 2004

PGPUB-DOCUMENT-NUMBER: 20040181277
PGPUB-FILING-TYPE: new
DOCUMENT-IDENTIFIER: US 20040181277 A1

TITLE: Irradiated stent coating

PUBLICATION-DATE: September 16, 2004

INVENTOR-INFORMATION:

NAME	CITY	STATE	COUNTRY
Furst, Joseph G.	Middlefield	OH	US

US-CL-CURRENT: 623/1.16

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9. Document ID: US 20030203958 A1

L13: Entry 9 of 18

File: PGPB

Oct 30, 2003

PGPUB-DOCUMENT-NUMBER: 20030203958

PGPUB-FILING-TYPE: new

DOCUMENT-IDENTIFIER: US 20030203958 A1

TITLE: Therapeutic inhibitor of vascular smooth muscle cells

PUBLICATION-DATE: October 30, 2003

INVENTOR-INFORMATION:

NAME	CITY	STATE	COUNTRY
Kunz, Lawrence L.	Redmond	WA	US
Klein, Richard A.	Edmonds	WA	US
Reno, John M.	Brier	WA	US

US-CL-CURRENT: 514/411; 514/449

[Full](#) | [Title](#) | [Citation](#) | [Front](#) | [Review](#) | [Classification](#) | [Date](#) | [Reference](#) | [Sequences](#) | [Attachments](#) | [Claims](#) | [KMC](#) | [Draw Desc](#) | [Ima](#)

10. Document ID: US 20030187493 A1

L13: Entry 10 of 18

File: PGPB

Oct 2, 2003

PGPUB-DOCUMENT-NUMBER: 20030187493

PGPUB-FILING-TYPE: new

DOCUMENT-IDENTIFIER: US 20030187493 A1

TITLE: Coated stent with protective assembly and method of using same

PUBLICATION-DATE: October 2, 2003

INVENTOR-INFORMATION:

NAME	CITY	STATE	COUNTRY
Campbell, Todd	Petaluma	CA	US
Cervantes, Marvin	Santa Rosa	CA	US

US-CL-CURRENT: 623/1.11; 623/1.42

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11. Document ID: US 20030083733 A1

L13: Entry 11 of 18

File: PGPB

May 1, 2003

PGPUB-DOCUMENT-NUMBER: 20030083733

PGPUB-FILING-TYPE: new

DOCUMENT-IDENTIFIER: US 20030083733 A1

TITLE: Therapeutic inhibitor of vascular smooth muscle cells

PUBLICATION-DATE: May 1, 2003

INVENTOR-INFORMATION:

NAME	CITY	STATE	COUNTRY
Kunz, Lawrence L.	Redmond	WA	US

US-CL-CURRENT: 623/1.15; 424/423, 604/518, 623/1.42[Full](#) [Title](#) [Citation](#) [Front](#) [Review](#) [Classification](#) [Date](#) [Reference](#) [Sequences](#) [Attachments](#) [Claims](#) [KDDC](#) [Draw Desc](#) [Imag](#)

12. Document ID: US 20030040790 A1

L13: Entry 12 of 18

File: PGPB

Feb 27, 2003

PGPUB-DOCUMENT-NUMBER: 20030040790

PGPUB-FILING-TYPE: new

DOCUMENT-IDENTIFIER: US 20030040790 A1

TITLE: Stent coating

PUBLICATION-DATE: February 27, 2003

INVENTOR-INFORMATION:

NAME	CITY	STATE	COUNTRY
Furst, Joseph G.	Middlefield	OH	US

US-CL-CURRENT: 623/1.11[Full](#) [Title](#) [Citation](#) [Front](#) [Review](#) [Classification](#) [Date](#) [Reference](#) [Sequences](#) [Attachments](#) [Claims](#) [KDDC](#) [Draw Desc](#) [Imag](#)

13. Document ID: US 20030039675 A1

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File: PGPB

Feb 27, 2003

PGPUB-DOCUMENT-NUMBER: 20030039675

PGPUB-FILING-TYPE: new

DOCUMENT-IDENTIFIER: US 20030039675 A1

TITLE: Therapeutic inhibitor of vascular smooth muscle cells

INVENTOR-INFORMATION:

NAME	CITY	STATE	COUNTRY
Kunz, Lawrence L.	Redmond	WA	US
Reno, John M.	Brier	WA	US

US-CL-CURRENT: 424/423; 514/449, 514/720

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14. Document ID: US 20020099438 A1

L13: Entry 14 of 18

File: PGPB

Jul 25, 2002

PGPUB-DOCUMENT-NUMBER: 20020099438

PGPUB-FILING-TYPE: new

DOCUMENT-IDENTIFIER: US 20020099438 A1

TITLE: Irradiated stent coating

PUBLICATION-DATE: July 25, 2002

INVENTOR-INFORMATION:

NAME	CITY	STATE	COUNTRY
Furst, Joseph G.	Middlefield	OH	US

US-CL-CURRENT: 623/1.16

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15. Document ID: US 20020086896 A1

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File: PGPB

Jul 4, 2002

PGPUB-DOCUMENT-NUMBER: 20020086896

PGPUB-FILING-TYPE: new

DOCUMENT-IDENTIFIER: US 20020086896 A1

TITLE: Therapeutic inhibitor of vascular smooth muscle cells

PUBLICATION-DATE: July 4, 2002

INVENTOR-INFORMATION:

NAME	CITY	STATE	COUNTRY
Kunz, Lawrence L.	Redmond	WA	US
Klein, Richard A.	Edmonds	WA	US
Reno, John M.	Brier	WA	US

US-CL-CURRENT: 514/449; 514/411

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16. Document ID: US 20020040064 A1

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File: PGPB

Apr 4, 2002

PGPUB-DOCUMENT-NUMBER: 20020040064

PGPUB-FILING-TYPE: new

DOCUMENT-IDENTIFIER: US 20020040064 A1

TITLE: Therapeutic inhibitor of vascular smooth muscle cells

PUBLICATION-DATE: April 4, 2002

INVENTOR-INFORMATION:

NAME	CITY	STATE	COUNTRY
Kunz, Lawrence L.	Redmond	WA	US
Klein, Richard A.	Lynnwood	WA	US

US-CL-CURRENT: 514/656

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17. Document ID: US 20020025979 A1

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File: PGPB

Feb 28, 2002

PGPUB-DOCUMENT-NUMBER: 20020025979

PGPUB-FILING-TYPE: new

DOCUMENT-IDENTIFIER: US 20020025979 A1

TITLE: Therapeutic inhibitor of vascular smooth muscle cells

PUBLICATION-DATE: February 28, 2002

INVENTOR-INFORMATION:

NAME	CITY	STATE	COUNTRY
Kunz, Lawrence L.	Redmond	WA	US
Reno, John M.	Brier	WA	US

US-CL-CURRENT: 514/411

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18. Document ID: US 20020013275 A1

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File: PGPB

Jan 31, 2002

PGPUB-DOCUMENT-NUMBER: 20020013275

PGPUB-FILING-TYPE: new

DOCUMENT-IDENTIFIER: US 20020013275 A1

TITLE: Therapeutic inhibitor of vascular smooth muscle cells

PUBLICATION-DATE: January 31, 2002

INVENTOR-INFORMATION:

NAME	CITY	STATE	COUNTRY
Kunz, Lawrence L.	Redmond	WA	US
Klein, Richard A.	Lynnwood	WA	US
Reno, John M.	Brier	WA	US

Grainger, David J.	Cambridge	AL	GB
Metcalfe, James C.	Cambridge		GB
Weissberg, Peter L.	Cambridge		GB
Anderson, Peter G.	Birmingham		US

US-CL-CURRENT: 514/12; 514/2, 514/411

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<u>L8</u>	6491938.pn.	1	<u>L8</u>
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<u>L1</u>	6268390.pn.	1	<u>L1</u>

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Continuity Information for 09/910388

Parent Data

09910388

is a continuation of 09470662Which is a continuation of 09113733Which is a continuation of 08450793Which is a continuation of 08062451 - ABNWhich is a continuation in part of 08011669 - ABNWhich is a continuation in part of PCT/US92/08220 International Filing Date: 09/25/1992**Child Data**

No Child Data

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5981568
6306421
6358989
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6569441

67767254 ABN

Patent (form of Jan 10)

6663881

Continuity Information for 08/450793

Parent Data08450793is a continuation of 08062451Which is a continuation in part of PCT/US92/08220 International Filing Date: **09/25/1992****Child Data**08738733 is a division of 0845079308829685 is a continuation in part of 0845079308829991 is a continuation in part of 0845079309113733 is a continuation in part of 0776725409361194 is a continuation in part of 0845079309470662 is a continuation of 0911373309896208 is a division of 0882999109910388 is a continuation of 0947066209995490 is a continuation of 0989620810024885 is a continuation of 09361194[Appn. Info](#) | [Contents](#) | [Petition Info](#) | [Atty/Agent Info](#) | **Continuity Data** | [Foreign Data](#) | [Inventors](#) |Search Another: Application# or Patent# PCT / / or PG PUBS # Attorney Docket # Bar Code #

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1: Wu X, Huang L, Zhou Q, Song Y, Li A, Wang H, Song M. Effect of paclitaxel and mesenchymal stem cells seeding on ex vivo vascular endothelial repair and smooth muscle cells growth. *J Cardiovasc Pharmacol.* 2005 Dec;46(6):779-86. PMID: 16306802 [PubMed - indexed for MEDLINE]

2: Kim SJ, Masaki T, Leypoldt JK, Kamerath CD, Mohammad SF, Cheung AK. Arterial and venous smooth-muscle cells differ in their responses to antiproliferative drugs. *J Lab Clin Med.* 2004 Sep;144(3):156-62. PMID: 15454885 [PubMed - indexed for MEDLINE]

3: Sindermann JR, Verin V, Hopewell JW, Rodemann HP, Hendry JH. Biological aspects of radiation and drug-eluting stents for the prevention of restenosis. *Cardiovasc Res.* 2004 Jul 1;63(1):22-30. Review. PMID: 15194458 [PubMed - indexed for MEDLINE]

4: Wang L, MacDonald RC. Effects of microtubule-depolymerizing agents on the transfection of cultured vascular smooth muscle cells: enhanced expression with free drug and especially with drug-gene lipoplexes. *Mol Ther.* 2004 May;9(5):729-37. PMID: 15120334 [PubMed - indexed for MEDLINE]

5: Zheng XL, Gui Y, Du G, Frohman MA, Peng DO. Calphostin-C induction of vascular smooth muscle cell apoptosis proceeds through phospholipase D and microtubule inhibition. *J Biol Chem.* 2004 Feb 20;279(8):7112-8. Epub 2003 Dec 6. PMID: 14660552 [PubMed - indexed for MEDLINE]

6: Scheller B, Speck U, Romeike B, Schmitt A, Sovak M, Bohm M, Stoll HP. Contrast media as carriers for local drug delivery. Successful inhibition of neointimal proliferation in the porcine coronary stent model. *Eur Heart J.* 2003 Aug;24(15):1462-7. PMID: 12909076 [PubMed - indexed for MEDLINE]

7: Sindermann JR, Skaletz-Rorowski A, Bartels A, Hohage H, Plenz G, Schmidt A, Breithardt G. Paclitaxel and cyclosporine A show supra-additive antiproliferative effects on smooth muscle cells by activation of protein kinase C. *Basic Res Cardiol.* 2002 Mar;97(2):125-31. PMID: 12002259 [PubMed - indexed for MEDLINE]

8: Oberhoff M, Kunert W, Herdeg C, Kuttner A, Kranzhofer A, Horch B, Baumbach A, Karsch KR. Inhibition of smooth muscle cell proliferation after local drug delivery of the

 antimitotic drug paclitaxel using a porous balloon catheter.
Basic Res Cardiol. 2001 May-Jun;96(3):275-82.
PMID: 11403421 [PubMed - indexed for MEDLINE]

 9: Heldman AW, Cheng L, Jenkins GM, Heller PF, Kim DW, Ware M Jr, Nater C, Hruban RH, Rezai B, Abella BS, Bunge KE, Kinsella JL, Sollott SJ, Lakatta EG, Brinker JA, Hunter WL, Froehlich JP. [Related Articles](#), [Links](#)
 Paclitaxel stent coating inhibits neointimal hyperplasia at 4 weeks in a porcine model of coronary restenosis.
Circulation. 2001 May 8;103(18):2289-95.
PMID: 11342479 [PubMed - indexed for MEDLINE]

 10: Nakamura M, Sunagawa M, Kosugi T, Sperelakis N. [Related Articles](#), [Links](#)
 Actin filament disruption inhibits L-type Ca(2+) channel current in cultured vascular smooth muscle cells.
Am J Physiol Cell Physiol. 2000 Aug;279(2):C480-7.
PMID: 10913014 [PubMed - indexed for MEDLINE]

 11: Suh H, Jeong B, Rathi R, Kim SW. [Related Articles](#), [Links](#)
 Regulation of smooth muscle cell proliferation using paclitaxel-loaded poly(ethylene oxide)-poly(lactide/glycolide) nanospheres.
J Biomed Mater Res. 1998 Nov;42(2):331-8.
PMID: 9773830 [PubMed - indexed for MEDLINE]

 12: Leite R, Webb RC. [Related Articles](#), [Links](#)
 Microtubule disruption potentiates phenylephrine-induced vasoconstriction in rat mesenteric arterial bed.
Eur J Pharmacol. 1998 Jun 12;351(1):R1-3.
PMID: 9698197 [PubMed - indexed for MEDLINE]

 13: Axel DL, Kunert W, Goggelmann C, Oberhoff M, Herdeg C, Kuttner A, Wild DH, Brehm BR, Riessen R, Koveker G, Karsch KR. [Related Articles](#), [Links](#)
 Paclitaxel inhibits arterial smooth muscle cell proliferation and migration in vitro and in vivo using local drug delivery.
Circulation. 1997 Jul 15;96(2):636-45.
PMID: 9244237 [PubMed - indexed for MEDLINE]

 14: Smith CD, Zhang X, Mooberry SL, Patterson GM, Moore RE. [Related Articles](#), [Links](#)
 Cryptophycin: a new antimicrotubule agent active against drug-resistant cells.
Cancer Res. 1994 Jul 15;54(14):3779-84.
PMID: 7913408 [PubMed - indexed for MEDLINE]

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<u>L4</u>	L1 and (does not inhibit protein synthesis)	1	<u>L4</u>
<u>L3</u>	L1 and (does not exhibit cytotoxicity)	1	<u>L3</u>
<u>L2</u>	L1 and (sustained release dosage form)	1	<u>L2</u>
<u>L1</u>	5981568.pn.	1	<u>L1</u>

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41: [Nguyen KT, Su SH, Sheng A, Wawro D, Schwade ND, Brouse CF, Greilich PE, Tang L, Eberhart RC.](#) Related Articles, Links
 In vitro hemocompatibility studies of drug-loaded poly-(L-lactic acid) fibers. Biomaterials. 2003 Dec;24(28):5191-201.
PMID: 14568436 [PubMed - indexed for MEDLINE]

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 Addition of paclitaxel to contrast media prevents restenosis after coronary stent implantation. J Am Coll Cardiol. 2003 Oct 15;42(8):1415-20.
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 Drug eluting stents: managing coronary artery stenosis following PTCA. Issues Emerg Health Technol. 2002 Oct;(40):1-6.
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 Human internal mammary artery organ culture model of coronary stenting: a novel investigation of smooth muscle cell response to drug-eluting stents. Clin Sci (Lond). 2002 Oct;103(4):347-53.
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45: [Kolodgie FD, John M, Khurana C, Farb A, Wilson PS, Acampado E, Desai N, Soon-Shiong P, Virmani R.](#) Related Articles, Links
 Sustained reduction of in-stent neointimal growth with the use of a novel systemic nanoparticle paclitaxel. Circulation. 2002 Sep 3;106(10):1195-8.
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 Paclitaxel-coated Gianturco-Roubin II (GR II) stents reduce neointimal hyperplasia in a porcine coronary in-stent restenosis model. Coron Artery Dis. 2001 Sep;12(6):513-5.
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49: [Herdeg C](#), [Oberhoff M](#), [Siegel-Axel DI](#), [Baumbach A](#), [Blattner A](#), [Kuitner](#) Related Articles, Links
[A, Schroder S](#), [Karsch KR](#).

[Paclitaxel: a chemotherapeutic agent for prevention of restenosis? Experimental studies in vitro and in vivo]
Z Kardiol. 2000 May;89(5):390-7. German.
PMID: 10900668 [PubMed - indexed for MEDLINE]

50: [Herdeg C](#), [Oberhoff M](#), [Baumbach A](#), [Blattner A](#), [Axel DI](#), [Schroder S](#), Related Articles, Links
[Heinle H](#), [Karsch KR](#).

Local paclitaxel delivery for the prevention of restenosis: biological effects and efficacy in vivo.
J Am Coll Cardiol. 2000 Jun;35(7):1969-76.
PMID: 10841250 [PubMed - indexed for MEDLINE]

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Antiproliferative stent coatings: Taxol and related compounds.
Semin Interv Cardiol. 1998 Sep-Dec;3(3-4):197-9. Review.
PMID: 10406693 [PubMed - indexed for MEDLINE] *bad date*

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Circulation. 1997 Jul 15;96(2):636-45.
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NEWS 9 JAN 13 IPC 8 searching in IFIPAT, IFIUDB, and IFICDB
NEWS 10 JAN 13 New IPC 8 SEARCH, DISPLAY, and SELECT enhancements added to
INPADOC
NEWS 11 JAN 17 Pre-1988 INPI data added to MARPAT
NEWS 12 JAN 17 IPC 8 in the WPI family of databases including WPIFV
NEWS 13 JAN 30 Saved answer limit increased
NEWS 14 JAN 31 Monthly current-awareness alert (SDI) frequency
added to TULSA
NEWS 15 FEB 21 STN AnaVist, Version 1.1, lets you share your STN AnaVist
visualization results
NEWS 16 FEB 22 Status of current WO (PCT) information on STN
NEWS 17 FEB 22 The IPC thesaurus added to additional patent databases on STN
NEWS 18 FEB 22 Updates in EPFULL; IPC 8 enhancements added
NEWS 19 FEB 27 New STN AnaVist pricing effective March 1, 2006
NEWS 20 FEB 28 MEDLINE/LMEDLINE reload improves functionality
NEWS 21 FEB 28 TOXCENTER reloaded with enhancements
NEWS 22 FEB 28 REGISTRY/ZREGISTRY enhanced with more experimental spectral
property data
NEWS 23 MAR 01 INSPEC reloaded and enhanced
NEWS 24 MAR 03 Updates in PATDPA; addition of IPC 8 data without attributes
NEWS 25 MAR 08 X.25 communication option no longer available after June 2006

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=> s restenosis
L1 162469 RESTENOSIS

=> s 11 and reduction or inhibition
L2 1862352 L1 AND REDUCTION OR INHIBITION

=> s (reduce restenosis)
L3 1295 (REDUCE RESTENOSIS)

=> S 13 AND L2
L4 630 L3 AND L2

=> s 14 and (following vascular surgery)
L5 8 L4 AND (FOLLOWING VASCULAR SURGERY)

=> d 15 ti abs ibib tot

L5 ANSWER 1 OF 8 USPATFULL on STN

TI Therapeutic inhibitor of vascular smooth muscle cells
AB Methods are provided for inhibiting stenosis or **restenosis**
following vascular trauma in a mammalian host, comprising administering
to the host a therapeutically effective dosage of a cytostatic agent
and/or cytoskeletal inhibitor so as to biologically stent the
traumatized vessel. Also provided is a method to inhibit or reduce
vascular remodeling following vascular trauma, comprising administering
an effective amount of a cytoskeletal inhibitor. Further provided are
pharmaceutical compositions and kits comprising the therapeutic agents
of the invention.

CAS INDEXING IS AVAILABLE FOR THIS PATENT.
ACCESSION NUMBER: 2003:289199 USPATFULL

TITLE: Therapeutic inhibitor of vascular smooth muscle cells
INVENTOR(S): Kunz, Lawrence L., Redmond, WA, UNITED STATES
Klein, Richard A., Edmonds, WA, UNITED STATES
Reno, John M., Brier, WA, UNITED STATES
PATENT ASSIGNEE(S): NeoRx Corporation (U.S. corporation)

| | NUMBER | KIND | DATE |
|--|---|------|---------------|
| PATENT INFORMATION: | US 2003203958 | A1 | 20031030 |
| | US 6720350 | B2 | 20040413 |
| APPLICATION INFO.: | US 2002-330834 | A1 | 20021227 (10) |
| RELATED APPLN. INFO.: | Continuation of Ser. No. US 2001-24885, filed on 18 Dec 2001, PENDING Continuation of Ser. No. US 1999-361194, filed on 26 Jul 1999, GRANTED, Pat. No. US 6358989 Division of Ser. No. US 1997-829685, filed on 31 Mar 1997, GRANTED, Pat. No. US 5981568 | | |
| DOCUMENT TYPE: | Utility | | |
| FILE SEGMENT: | APPLICATION | | |
| LEGAL REPRESENTATIVE: | SCHWEGMAN, LUNDBERG, WOESSNER & KLUTH, P.A., P.O. BOX 2938, MINNEAPOLIS, MN, 55402 | | |
| NUMBER OF CLAIMS: | 130 | | |
| EXEMPLARY CLAIM: | 1 | | |
| NUMBER OF DRAWINGS: | 22 Drawing Page(s) | | |
| LINE COUNT: | 5208 | | |
| CAS INDEXING IS AVAILABLE FOR THIS PATENT. | | | |

L5 ANSWER 2 OF 8 USPATFULL on STN

TI Therapeutic inhibitor of vascular smooth muscle cells
AB Methods are provided for inhibiting stenosis or **restenosis** following vascular trauma in a mammalian host, comprising administering to the host a therapeutically effective dosage of a cytostatic agent and/or cytoskeletal inhibitor so as to biologically stent the traumatized vessel. Also provided is a method to inhibit or reduce vascular remodeling following vascular trauma, comprising administering an effective amount of a cytoskeletal inhibitor. Further provided are pharmaceutical compositions and kits comprising the therapeutic agents of the invention.

CAS INDEXING IS AVAILABLE FOR THIS PATENT.

ACCESSION NUMBER: 2003:57111 USPATFULL
TITLE: Therapeutic inhibitor of vascular smooth muscle cells
INVENTOR(S): Kunz, Lawrence L., Redmond, WA, UNITED STATES
Reno, John M., Brier, WA, UNITED STATES
PATENT ASSIGNEE(S): AngioTech Pharmaceuticals, Inc. (U.S. corporation)

| | NUMBER | KIND | DATE |
|-----------------------|--|------|--------------|
| PATENT INFORMATION: | US 2003039675 | A1 | 20030227 |
| | US 6569441 | B2 | 20030527 |
| APPLICATION INFO.: | US 2001-995490 | A1 | 20011127 (9) |
| RELATED APPLN. INFO.: | Continuation of Ser. No. US 2001-896208, filed on 29 Jun 2001, PENDING Division of Ser. No. US 1997-829991, filed on 31 Mar 1997, GRANTED, Pat. No. US 6306421 Continuation-in-part of Ser. No. US 1995-450793, filed on 25 May 1995, GRANTED, Pat. No. US 5811447 Continuation of Ser. No. US 1993-62451, filed on 13 May 1993, ABANDONED Continuation of Ser. No. WO 1996-US2125, filed on 15 Feb 1996, UNKNOWN Continuation-in-part of Ser. No. US 1995-389712, filed on 15 Feb 1995, PENDING | | |
| DOCUMENT TYPE: | Utility | | |
| FILE SEGMENT: | APPLICATION | | |
| LEGAL REPRESENTATIVE: | SCHWEGMAN, LUNDBERG, WOESSNER & KLUTH, P.A., P.O. BOX | | |

2938, MINNEAPOLIS, MN, 55402

NUMBER OF CLAIMS: 60
EXEMPLARY CLAIM: 1
NUMBER OF DRAWINGS: 21 Drawing Page(s)
LINE COUNT: 5071
CAS INDEXING IS AVAILABLE FOR THIS PATENT.

L5 ANSWER 3 OF 8 USPATFULL on STN

TI Therapeutic inhibitor of vascular smooth muscle cells
AB Methods are provided for inhibiting stenosis or **restenosis** following vascular trauma in a mammalian host, comprising administering to the host a therapeutically effective dosage of a cytostatic agent and/or cytoskeletal inhibitor so as to biologically stent the traumatized vessel. Also provided is a method to inhibit or reduce vascular remodeling following vascular trauma, comprising administering an effective amount of a cytoskeletal inhibitor. Further provided are pharmaceutical compositions and kits comprising the therapeutic agents of the invention.

CAS INDEXING IS AVAILABLE FOR THIS PATENT.

ACCESSION NUMBER: 2002:165265 USPATFULL
TITLE: Therapeutic inhibitor of vascular smooth muscle cells
INVENTOR(S): Kunz, Lawrence L., Redmond, WA, UNITED STATES
Klein, Richard A., Edmonds, WA, UNITED STATES
Reno, John M., Brier, WA, UNITED STATES
PATENT ASSIGNEE(S): NeoRx Corporation (U.S. corporation)

| | NUMBER | KIND | DATE |
|-----------------------|---|------|---------------|
| PATENT INFORMATION: | US 2002086896 | A1 | 20020704 |
| | US 6663881 | B2 | 20031216 |
| APPLICATION INFO.: | US 2001-24885 | A1 | 20011218 (10) |
| RELATED APPLN. INFO.: | Continuation of Ser. No. US 1993-62451, filed on 13 May 1993, ABANDONED Continuation of Ser. No. US 1999-361194, filed on 26 Jul 1999, PATENTED Division of Ser. No. US 1997-829685, filed on 31 Mar 1997, PATENTED Continuation-in-part of Ser. No. US 1995-450793, filed on 25 May 1995, PATENTED Continuation of Ser. No. US 1993-62451, filed on 13 May 1993, ABANDONED Continuation-in-part of Ser. No. US 1993-11669, filed on 28 Jan 1993, ABANDONED Continuation-in-part of Ser. No. WO 1996-US2125, filed on 15 Feb 1996, UNKNOWN Continuation-in-part of Ser. No. US 1995-389712, filed on 15 Feb 1995, PENDING | | |

DOCUMENT TYPE: Utility
FILE SEGMENT: APPLICATION
LEGAL REPRESENTATIVE: SCHWEGMAN, LUNDBERG, WOESSNER & KLUTH, P.A., P.O. BOX 2938, MINNEAPOLIS, MN, 55402
NUMBER OF CLAIMS: 90
EXEMPLARY CLAIM: 1
NUMBER OF DRAWINGS: 22 Drawing Page(s)
LINE COUNT: 5092
CAS INDEXING IS AVAILABLE FOR THIS PATENT.

L5 ANSWER 4 OF 8 USPATFULL on STN

TI Therapeutic inhibitor of vascular smooth muscle cells
AB Methods are provided for inhibiting stenosis or **restenosis** following vascular trauma in a mammalian host, comprising administering to the host a therapeutically effective dosage of a cytostatic agent and/or cytoskeletal inhibitor so as to biologically stent the traumatized vessel. Also provided is a method to inhibit or reduce vascular remodeling following vascular trauma, comprising administering an effective amount of a cytoskeletal inhibitor. Further provided are

pharmaceutical compositions and kits comprising the therapeutic agents of the invention.

CAS INDEXING IS AVAILABLE FOR THIS PATENT.

ACCESSION NUMBER: 2002:57821 USPATFULL
TITLE: Therapeutic inhibitor of vascular smooth muscle cells
INVENTOR(S): Kunz, Lawrence L., Redmond, WA, United States
Klein, Richard A., Edmonds, WA, United States
Reno, John M., Brier, WA, United States
PATENT ASSIGNEE(S): NeoRx Corporation, Seattle, WA, United States (U.S. corporation)

| | NUMBER | KIND | DATE |
|-----------------------|--|------|--------------|
| PATENT INFORMATION: | US 6358989 | B1 | 20020319 |
| APPLICATION INFO.: | US 1999-361194 | | 19990726 (9) |
| RELATED APPLN. INFO.: | Division of Ser. No. US 1997-829685, filed on 31 Mar 1997 Continuation-in-part of Ser. No. US 1995-450793, filed on 25 May 1995, now patented, Pat. No. US 5811447 Continuation of Ser. No. WO 1996-US2125, filed on 15 Feb 1996 Continuation-in-part of Ser. No. US 1995-389712, filed on 15 Feb 1995 Continuation of Ser. No. US 1993-62451, filed on 13 May 1993, now abandoned | | |
| DOCUMENT TYPE: | Utility | | |
| FILE SEGMENT: | GRANTED | | |
| PRIMARY EXAMINER: | Barts, Samuel | | |
| LEGAL REPRESENTATIVE: | Schwegman, Lundenberg, Woessner & Kluth, PA | | |
| NUMBER OF CLAIMS: | 20 | | |
| EXEMPLARY CLAIM: | 1 | | |
| NUMBER OF DRAWINGS: | 30 Drawing Figure(s); 22 Drawing Page(s) | | |
| LINE COUNT: | 5403 | | |

CAS INDEXING IS AVAILABLE FOR THIS PATENT.

L5 ANSWER 5 OF 8 USPATFULL on STN

TI Therapeutic inhibitor of vascular smooth muscle cells
AB Methods are provided for inhibiting stenosis or **restenosis** following vascular trauma in a mammalian host, comprising administering to the host a therapeutically effective dosage of a cytostatic agent and/or cytoskeletal inhibitor so as to biologically stent the traumatized vessel. Also provided is a method to inhibit or reduce vascular remodeling following vascular trauma, comprising administering an effective amount of a cytoskeletal inhibitor. Further provided are pharmaceutical compositions and kits comprising the therapeutic agents of the invention.

CAS INDEXING IS AVAILABLE FOR THIS PATENT.

ACCESSION NUMBER: 2002:43612 USPATFULL
TITLE: Therapeutic inhibitor of vascular smooth muscle cells
INVENTOR(S): Kunz, Lawrence L., Redmond, WA, UNITED STATES
Reno, John M., Brier, WA, UNITED STATES

| | NUMBER | KIND | DATE |
|-----------------------|--|------|--------------|
| PATENT INFORMATION: | US 2002025979 | A1 | 20020228 |
| | US 6491938 | B2 | 20021210 |
| APPLICATION INFO.: | US 2001-896208 | A1 | 20010629 (9) |
| RELATED APPLN. INFO.: | Division of Ser. No. US 1997-829991, filed on 31 Mar 1997, PENDING Continuation-in-part of Ser. No. US 1995-450793, filed on 25 May 1995, GRANTED, Pat. No. US 5811447 Continuation of Ser. No. US 1993-62451, filed on 13 May 1993, ABANDONED Continuation of Ser. No. WO 1996-US2125, filed on 15 Feb 1996, UNKNOWN Continuation-in-part of Ser. No. US 1995-389712, filed | | |

DOCUMENT TYPE: on 15 Feb 1995, PENDING
FILE SEGMENT: Utility
LEGAL REPRESENTATIVE: APPLICATION
SCHWEGMAN, LUNDBERG, WOESSNER & KLUTH, P.A., 1600 TCF
TOWER, 121 SOUTH 8TH STREET, MINNEAPOLIS, MN, 55402
NUMBER OF CLAIMS: 60
EXEMPLARY CLAIM: 1
NUMBER OF DRAWINGS: 22 Drawing Page(s)
LINE COUNT: 5068
CAS INDEXING IS AVAILABLE FOR THIS PATENT.

L5 ANSWER 6 OF 8 USPATFULL on STN

TI Therapeutic inhibitor of vascular smooth muscle cells
AB Methods are provided for inhibiting stenosis or restenosis following vascular trauma in a mammalian host, comprising administering to the host a therapeutically effective dosage of a cytostatic agent and/or cytoskeletal inhibitor so as to biologically stent the traumatized vessel. Also provided is a method to inhibit or reduce vascular remodeling following vascular trauma, comprising administering an effective amount of a cytoskeletal inhibitor. Further provided are pharmaceutical compositions and kits comprising the therapeutic agents of the invention.

CAS INDEXING IS AVAILABLE FOR THIS PATENT.

ACCESSION NUMBER: 2001:184866 USPATFULL
TITLE: Therapeutic inhibitor of vascular smooth muscle cells
INVENTOR(S): Kunz, Lawrence L., Redmond, WA, United States
Reno, John M., Brier, WA, United States
PATENT ASSIGNEE(S): NeoRx Corporation, Seattle, WA, United States (U.S. corporation)

| | NUMBER | KIND | DATE |
|-----------------------|--|------|--------------|
| PATENT INFORMATION: | US 6306421 | B1 | 20011023 |
| APPLICATION INFO.: | US 1997-829991 | | 19970331 (8) |
| RELATED APPLN. INFO.: | Continuation-in-part of Ser. No. US 1995-450793, filed on 25 May 1995, now patented, Pat. No. US 5811447
Continuation of Ser. No. US 1993-62451, filed on 13 May 1993, now abandoned Continuation-in-part of Ser. No. US 1993-11669, filed on 28 Jan 1993 Continuation-in-part of Ser. No. WO 1992-US8220, filed on 25 Sep 1992
Continuation-in-part of Ser. No. WO 1996-US2125, filed on 15 Feb 1996 Continuation-in-part of Ser. No. US 1995-389712, filed on 15 Feb 1995, now abandoned | | |

DOCUMENT TYPE: Utility
FILE SEGMENT: GRANTED
PRIMARY EXAMINER: Barts, Samuel
LEGAL REPRESENTATIVE: Schwegman, Lundberg, Woessner & Kluth, P.A.
NUMBER OF CLAIMS: 36
EXEMPLARY CLAIM: 1
NUMBER OF DRAWINGS: 30 Drawing Figure(s); 22 Drawing Page(s)
LINE COUNT: 5649
CAS INDEXING IS AVAILABLE FOR THIS PATENT.

L5 ANSWER 7 OF 8 USPATFULL on STN

TI Therapeutic inhibitor of vascular smooth muscle cells
AB Methods are provided for inhibiting stenosis following vascular trauma or disease in a mammalian host, comprising administering to the host a therapeutically effective dosage of a therapeutic conjugate containing a vascular smooth muscle binding protein that associates in a specific manner with a cell surface of the vascular smooth muscle cell, coupled to a therapeutic agent dosage form that inhibits a cellular activity of the muscle cell. Methods are also provided for the direct and/or

targeted delivery of therapeutic agents to vascular smooth muscle cells that cause a dilation and fixation of the vascular lumen by inhibiting smooth muscle cell contraction, thereby constituting a biological stent.

CAS INDEXING IS AVAILABLE FOR THIS PATENT.

ACCESSION NUMBER: 2001:4284 USPATFULL
TITLE: Therapeutic inhibitor of vascular smooth muscle cells
INVENTOR(S): Kunz, Lawrence L., Redmond, WA, United States
PATENT ASSIGNEE(S): NeoRx Corporation, Seattle, WA, United States (U.S. corporation)

| | NUMBER | KIND | DATE |
|-----------------------|---|------|--------------|
| PATENT INFORMATION: | US 6171609 | B1 | 20010109 |
| APPLICATION INFO.: | US 1995-546794 | | 19951023 (8) |
| RELATED APPLN. INFO.: | Division of Ser. No. US 1995-389712, filed on 15 Feb 1995 | | |
| DOCUMENT TYPE: | Patent | | |
| FILE SEGMENT: | Granted | | |
| PRIMARY EXAMINER: | Barts, Samuel | | |
| LEGAL REPRESENTATIVE: | Schwegman, Lundberg, Woessner & Kluth P.A. | | |
| NUMBER OF CLAIMS: | 73 | | |
| EXEMPLARY CLAIM: | 1 | | |
| NUMBER OF DRAWINGS: | 27 Drawing Figure(s); 19 Drawing Page(s) | | |
| LINE COUNT: | 4091 | | |

CAS INDEXING IS AVAILABLE FOR THIS PATENT.

L5 ANSWER 8 OF 8 USPATFULL on STN

TI Therapeutic inhibitor of vascular smooth muscle cells
AB Methods are provided for inhibiting stenosis or **restenosis** following vascular trauma in a mammalian host, comprising administering to the host a therapeutically effective dosage of a cytostatic agent and/or cytoskeletal inhibitor so as to biologically stent the traumatized vessel. Also provided is a method to inhibit or reduce vascular remodeling following vascular trauma, comprising administering an effective amount of a cytoskeletal inhibitor. Further provided are pharmaceutical compositions and kits comprising the therapeutic agents of the invention.

CAS INDEXING IS AVAILABLE FOR THIS PATENT.

ACCESSION NUMBER: 1999:141975 USPATFULL
TITLE: Therapeutic inhibitor of vascular smooth muscle cells
INVENTOR(S): Kunz, Lawrence L., Redmond, WA, United States
Klein, Richard A., Edmonds, WA, United States
Reno, John M., Brier, WA, United States
PATENT ASSIGNEE(S): NeoRx Corporation, Seattle, WA, United States (U.S. corporation)

| | NUMBER | KIND | DATE |
|-----------------------|--|------|--------------|
| PATENT INFORMATION: | US 5981568 | | 19991109 |
| APPLICATION INFO.: | US 1997-829685 | | 19970331 (8) |
| RELATED APPLN. INFO.: | Continuation-in-part of Ser. No. US 1995-450793, filed on 25 May 1995, now patented, Pat. No. US 5811447 which is a continuation of Ser. No. US 1993-62451, filed on 13 May 1993, now abandoned And a continuation-in-part of Ser. No. WO 1996-US2125, filed on 15 Feb 1996 which is a continuation-in-part of Ser. No. US 1995-389712, filed on 15 Feb 1995 | | |
| DOCUMENT TYPE: | Utility | | |
| FILE SEGMENT: | Granted | | |
| PRIMARY EXAMINER: | Barts, Samuel | | |
| LEGAL REPRESENTATIVE: | Schwegman, Lundberg, Woessner & Kluth, P.A. | | |

NUMBER OF CLAIMS: 56
EXEMPLARY CLAIM: 1
NUMBER OF DRAWINGS: 30 Drawing Figure(s); 22 Drawing Page(s)
LINE COUNT: 5553
CAS INDEXING IS AVAILABLE FOR THIS PATENT.

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FILE 'MEDLINE, USPATFULL, DGENE, EMBASE, WPIDS, BIOSIS' ENTERED AT
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L1 162469 S RESTENOSIS
L2 1862352 S L1 AND REDUCTION OR INHIBITION
L3 1295 S (REDUCE RESTENOSIS)
L4 630 S L3 AND L2
L5 8 S L4 AND (FOLLOWING VASCULAR SURGERY)

=> s l4 and (non-biodegradable)

L6 42 L4 AND (NON-BIODEGRADABLE)

=> s l6 and (sustained release dosage form)

L7 11 L6 AND (SUSTAINED RELEASE DOSAGE FORM)

=> d 17 ti abs ibib tot

L7 ANSWER 1 OF 11 USPATFULL on STN

TI Coated stent with protective packaging and method of using same
AB A coated stent with protective packaging is provided. The coated stent comprises at least one stent segment and a tray including a stent void disposed therein, wherein the stent segment is restricted from movement with respect to the tray while disposed within the stent void. Systems and method for the coated stent are also provided.

CAS INDEXING IS AVAILABLE FOR THIS PATENT.

ACCESSION NUMBER: 2004:308535 USPATFULL
TITLE: Coated stent with protective packaging and method of using same
INVENTOR(S): Farrell, Thomas, Galway, IRELAND
Quinn, Colm, Longford, IRELAND
PATENT ASSIGNEE(S): Medtronic Vascular, Inc., Santa Rosa, CA (non-U.S. corporation)

| | NUMBER | KIND | DATE |
|---------------------|----------------|------|---------------|
| PATENT INFORMATION: | US 2004243214 | A1 | 20041202 |
| APPLICATION INFO.: | US 2004-827982 | A1 | 20040420 (10) |

| | NUMBER | DATE |
|-----------------------|---|---------------|
| PRIORITY INFORMATION: | US 2003-464865P | 20030423 (60) |
| DOCUMENT TYPE: | Utility | |
| FILE SEGMENT: | APPLICATION | |
| LEGAL REPRESENTATIVE: | FRANK C. NICHOLAS, CARDINAL LAW GROUP, Suite 2000, 1603 Orrington Avenue, Evanston, IL, 60201 | |
| NUMBER OF CLAIMS: | 27 | |
| EXEMPLARY CLAIM: | 1 | |
| NUMBER OF DRAWINGS: | 4 Drawing Page(s) | |
| LINE COUNT: | 710 | |

CAS INDEXING IS AVAILABLE FOR THIS PATENT.

L7 ANSWER 2 OF 11 USPATFULL on STN

TI Therapeutic inhibitor of vascular smooth muscle cells
AB Methods are provided for inhibiting stenosis or **restenosis**
following vascular trauma in a mammalian host, comprising administering
to the host a therapeutically effective dosage of a cytostatic agent
and/or cytoskeletal inhibitor so as to biologically stent the
traumatized vessel. Also provided is a method to inhibit or reduce
vascular remodeling following vascular trauma, comprising administering
an effective amount of a cytoskeletal inhibitor. Further provided are
pharmaceutical compositions and kits comprising the therapeutic agents
of the invention.

CAS INDEXING IS AVAILABLE FOR THIS PATENT.

ACCESSION NUMBER: 2003:289199 USPATFULL
TITLE: Therapeutic inhibitor of vascular smooth muscle cells
INVENTOR(S): Kunz, Lawrence L., Redmond, WA, UNITED STATES
Klein, Richard A., Edmonds, WA, UNITED STATES
Reno, John M., Brier, WA, UNITED STATES
PATENT ASSIGNEE(S): NeoRx Corporation (U.S. corporation)

| | NUMBER | KIND | DATE |
|-----------------------|---|------|---------------|
| PATENT INFORMATION: | US 2003203958 | A1 | 20031030 |
| | US 6720350 | B2 | 20040413 |
| APPLICATION INFO.: | US 2002-330834 | A1 | 20021227 (10) |
| RELATED APPLN. INFO.: | Continuation of Ser. No. US 2001-24885, filed on 18 Dec 2001, PENDING Continuation of Ser. No. US 1999-361194, filed on 26 Jul 1999, GRANTED, Pat. No. US 6358989 Division of Ser. No. US 1997-829685, filed on 31 Mar 1997, GRANTED, Pat. No. US 5981568 | | |
| DOCUMENT TYPE: | Utility | | |
| FILE SEGMENT: | APPLICATION | | |
| LEGAL REPRESENTATIVE: | SCHWEGMAN, LUNDBERG, WOESSNER & KLUTH, P.A., P.O. BOX 2938, MINNEAPOLIS, MN, 55402 | | |
| NUMBER OF CLAIMS: | 130 | | |
| EXEMPLARY CLAIM: | 1 | | |
| NUMBER OF DRAWINGS: | 22 Drawing Page(s) | | |
| LINE COUNT: | 5208 | | |

CAS INDEXING IS AVAILABLE FOR THIS PATENT.

L7 ANSWER 3 OF 11 USPATFULL on STN

TI Coated stent with protective assembly and method of using same
AB A stent with a protective assembly is provided. The stent comprises at least one stent segment, operatively adapted for deployment from the sheath member, and at least one sheath member removably enclosing the stent segment and operatively adapted to protect the stent segment from handling. Methods and systems for use of the stent are also provided.

ACCESSION NUMBER: 2003:266475 USPATFULL
TITLE: Coated stent with protective assembly and method of using same
INVENTOR(S): Campbell, Todd, Petaluma, CA, UNITED STATES
Cervantes, Marvin, Santa Rosa, CA, UNITED STATES

| | NUMBER | KIND | DATE |
|-----------------------|---|------|---------------|
| PATENT INFORMATION: | US 2003187493 | A1 | 20031002 |
| APPLICATION INFO.: | US 2002-112146 | A1 | 20020329 (10) |
| DOCUMENT TYPE: | Utility | | |
| FILE SEGMENT: | APPLICATION | | |
| LEGAL REPRESENTATIVE: | MEDTRONIC AVE, INC., 3576 UNOCAL PLACE, SANTA ROSA, CA, 95403 | | |
| NUMBER OF CLAIMS: | 44 | | |
| EXEMPLARY CLAIM: | 1 | | |

NUMBER OF DRAWINGS: 9 Drawing Page(s)
LINE COUNT: 809

L7 ANSWER 4 OF 11 USPATFULL on STN

TI Therapeutic inhibitor of vascular smooth muscle cells
AB Methods are provided for inhibiting stenosis or **restenosis** following vascular trauma in a mammalian host, comprising administering to the host a therapeutically effective dosage of a cytostatic agent and/or cytoskeletal inhibitor so as to biologically stent the traumatized vessel. Also provided is a method to inhibit or reduce vascular remodeling following vascular trauma, comprising administering an effective amount of a cytoskeletal inhibitor. Further provided are pharmaceutical compositions and kits comprising the therapeutic agents of the invention.

CAS INDEXING IS AVAILABLE FOR THIS PATENT.

ACCESSION NUMBER: 2003:57111 USPATFULL
TITLE: Therapeutic inhibitor of vascular smooth muscle cells
INVENTOR(S): Kunz, Lawrence L., Redmond, WA, UNITED STATES
Reno, John M., Brier, WA, UNITED STATES
PATENT ASSIGNEE(S): Angiotech Pharmaceuticals, Inc. (U.S. corporation)

| | NUMBER | KIND | DATE |
|-----------------------|---|------|--------------|
| PATENT INFORMATION: | US 2003039675 | A1 | 20030227 |
| | US 6569441 | B2 | 20030527 |
| APPLICATION INFO.: | US 2001-995490 | A1 | 20011127 (9) |
| RELATED APPLN. INFO.: | Continuation of Ser. No. US 2001-896208, filed on 29 Jun 2001, PENDING Division of Ser. No. US 1997-829991, filed on 31 Mar 1997, GRANTED, Pat. No. US 6306421
Continuation-in-part of Ser. No. US 1995-450793, filed on 25 May 1995, GRANTED, Pat. No. US 5811447
Continuation of Ser. No. US 1993-62451, filed on 13 May 1993, ABANDONED Continuation of Ser. No. WO 1996-US2125, filed on 15 Feb 1996, UNKNOWN
Continuation-in-part of Ser. No. US 1995-389712, filed on 15 Feb 1995, PENDING | | |

DOCUMENT TYPE: Utility

FILE SEGMENT: APPLICATION

LEGAL REPRESENTATIVE: SCHWEGMAN, LUNDBERG, WOESSNER & KLUTH, P.A., P.O. BOX 2938, MINNEAPOLIS, MN, 55402

NUMBER OF CLAIMS: 60

EXEMPLARY CLAIM: 1

NUMBER OF DRAWINGS: 21 Drawing Page(s)

LINE COUNT: 5071

CAS INDEXING IS AVAILABLE FOR THIS PATENT.

L7 ANSWER 5 OF 11 USPATFULL on STN

TI Therapeutic inhibitor of vascular smooth muscle cells
AB Methods are provided for inhibiting stenosis or **restenosis** following vascular trauma in a mammalian host, comprising administering to the host a therapeutically effective dosage of a cytostatic agent and/or cytoskeletal inhibitor so as to biologically stent the traumatized vessel. Also provided is a method to inhibit or reduce vascular remodeling following vascular trauma, comprising administering an effective amount of a cytoskeletal inhibitor. Further provided are pharmaceutical compositions and kits comprising the therapeutic agents of the invention.

CAS INDEXING IS AVAILABLE FOR THIS PATENT.

ACCESSION NUMBER: 2002:165265 USPATFULL
TITLE: Therapeutic inhibitor of vascular smooth muscle cells
INVENTOR(S): Kunz, Lawrence L., Redmond, WA, UNITED STATES

PATENT ASSIGNEE(S) :

Klein, Richard A., Edmonds, WA, UNITED STATES
Reno, John M., Brier, WA, UNITED STATES
NeoRx Corporation (U.S. corporation)

| | NUMBER | KIND | DATE |
|--|---|------|---------------|
| PATENT INFORMATION: | US 2002086896 | A1 | 20020704 |
| | US 6663881 | B2 | 20031216 |
| APPLICATION INFO.: | US 2001-24885 | A1 | 20011218 (10) |
| RELATED APPLN. INFO.: | Continuation of Ser. No. US 1993-62451, filed on 13 May 1993, ABANDONED Continuation of Ser. No. US 1999-361194, filed on 26 Jul 1999, PATENTED Division of Ser. No. US 1997-829685, filed on 31 Mar 1997, PATENTED Continuation-in-part of Ser. No. US 1995-450793, filed on 25 May 1995, PATENTED Continuation of Ser. No. US 1993-62451, filed on 13 May 1993, ABANDONED Continuation-in-part of Ser. No. US 1993-11669, filed on 28 Jan 1993, ABANDONED Continuation-in-part of Ser. No. WO 1996-US2125, filed on 15 Feb 1996, UNKNOWN Continuation-in-part of Ser. No. US 1995-389712, filed on 15 Feb 1995, PENDING | | |
| DOCUMENT TYPE: | Utility | | |
| FILE SEGMENT: | APPLICATION | | |
| LEGAL REPRESENTATIVE: | SCHWEGMAN, LUNDBERG, WOESSNER & KLUTH, P.A., P.O. BOX 2938, MINNEAPOLIS, MN, 55402 | | |
| NUMBER OF CLAIMS: | 90 | | |
| EXEMPLARY CLAIM: | 1 | | |
| NUMBER OF DRAWINGS: | 22 Drawing Page(s) | | |
| LINE COUNT: | 5092 | | |
| CAS INDEXING IS AVAILABLE FOR THIS PATENT. | | | |

L7 ANSWER 6 OF 11 USPATFULL on STN

TI Therapeutic inhibitor of vascular smooth muscle cells
AB Methods are provided for inhibiting stenosis or restenosis following vascular trauma in a mammalian host, comprising administering to the host a therapeutically effective dosage of a cytostatic agent and/or cytoskeletal inhibitor so as to biologically stent the traumatized vessel. Also provided is a method to inhibit or reduce vascular remodeling following vascular trauma, comprising administering an effective amount of a cytoskeletal inhibitor. Further provided are pharmaceutical compositions and kits comprising the therapeutic agents of the invention.

CAS INDEXING IS AVAILABLE FOR THIS PATENT.

ACCESSION NUMBER:

2002:57821 USPATFULL

TITLE:

Therapeutic inhibitor of vascular smooth muscle cells

INVENTOR(S) :

Kunz, Lawrence L., Redmond, WA, United States

Klein, Richard A., Edmonds, WA, United States

Reno, John M., Brier, WA, United States

PATENT ASSIGNEE(S) :

NeoRx Corporation, Seattle, WA, United States (U.S. corporation)

| | NUMBER | KIND | DATE |
|-----------------------|--|------|--------------|
| PATENT INFORMATION: | US 6358989 | B1 | 20020319 |
| APPLICATION INFO.: | US 1999-361194 | | 19990726 (9) |
| RELATED APPLN. INFO.: | Division of Ser. No. US 1997-829685, filed on 31 Mar 1997 Continuation-in-part of Ser. No. US 1995-450793, filed on 25 May 1995, now patented, Pat. No. US 5811447 Continuation of Ser. No. WO 1996-US2125, filed on 15 Feb 1996 Continuation-in-part of Ser. No. US 1995-389712, filed on 15 Feb 1995 Continuation of Ser. No. US 1993-62451, filed on 13 May 1993, now abandoned | | |

DOCUMENT TYPE: Utility
FILE SEGMENT: GRANTED
PRIMARY EXAMINER: Barts, Samuel
LEGAL REPRESENTATIVE: Schwegman, Lundberg, Woessner & Kluth, PA
NUMBER OF CLAIMS: 20
EXEMPLARY CLAIM: 1
NUMBER OF DRAWINGS: 30 Drawing Figure(s); 22 Drawing Page(s)
LINE COUNT: 5403
CAS INDEXING IS AVAILABLE FOR THIS PATENT.

L7 ANSWER 7 OF 11 USPATFULL on STN

TI Therapeutic inhibitor of vascular smooth muscle cells
AB Methods are provided for inhibiting stenosis or restenosis following vascular trauma in a mammalian host, comprising administering to the host a therapeutically effective dosage of a cytostatic agent and/or cytoskeletal inhibitor so as to biologically stent the traumatized vessel. Also provided is a method to inhibit or reduce vascular remodeling following vascular trauma, comprising administering an effective amount of a cytoskeletal inhibitor. Further provided are pharmaceutical compositions and kits comprising the therapeutic agents of the invention.

CAS INDEXING IS AVAILABLE FOR THIS PATENT.

ACCESSION NUMBER: 2002:43612 USPATFULL
TITLE: Therapeutic inhibitor of vascular smooth muscle cells
INVENTOR(S): Kunz, Lawrence L., Redmond, WA, UNITED STATES
Reno, John M., Brier, WA, UNITED STATES

| | NUMBER | KIND | DATE |
|-----------------------|--|------|--------------|
| PATENT INFORMATION: | US 2002025979 | A1 | 20020228 |
| | US 6491938 | B2 | 20021210 |
| APPLICATION INFO.: | US 2001-896208 | A1 | 20010629 (9) |
| RELATED APPLN. INFO.: | Division of Ser. No. US 1997-829991, filed on 31 Mar 1997, PENDING Continuation-in-part of Ser. No. US 1995-450793, filed on 25 May 1995, GRANTED, Pat. No. US 5811447 Continuation of Ser. No. US 1993-62451, filed on 13 May 1993, ABANDONED Continuation of Ser. No. WO 1996-US2125, filed on 15 Feb 1996, UNKNOWN Continuation-in-part of Ser. No. US 1995-389712, filed on 15 Feb 1995, PENDING | | |

DOCUMENT TYPE: Utility
FILE SEGMENT: APPLICATION
LEGAL REPRESENTATIVE: SCHWEGMAN, LUNDBERG, WOESSNER & KLUTH, P.A., 1600 TCF TOWER, 121 SOUTH 8TH STREET, MINNEAPOLIS, MN, 55402
NUMBER OF CLAIMS: 60
EXEMPLARY CLAIM: 1
NUMBER OF DRAWINGS: 22 Drawing Page(s)
LINE COUNT: 5068
CAS INDEXING IS AVAILABLE FOR THIS PATENT.

L7 ANSWER 8 OF 11 USPATFULL on STN

TI Therapeutic inhibitor of vascular smooth muscle cells
AB Methods are provided for inhibiting stenosis or restenosis following vascular trauma in a mammalian host, comprising administering to the host a therapeutically effective dosage of a cytostatic agent and/or cytoskeletal inhibitor so as to biologically stent the traumatized vessel. Also provided is a method to inhibit or reduce vascular remodeling following vascular trauma, comprising administering an effective amount of a cytoskeletal inhibitor. Further provided are pharmaceutical compositions and kits comprising the therapeutic agents of the invention.

CAS INDEXING IS AVAILABLE FOR THIS PATENT.

ACCESSION NUMBER: 2001:184866 USPATFULL
TITLE: Therapeutic inhibitor of vascular smooth muscle cells
INVENTOR(S): Kunz, Lawrence L., Redmond, WA, United States
Reno, John M., Brier, WA, United States
PATENT ASSIGNEE(S): NeoRx Corporation, Seattle, WA, United States (U.S. corporation)

| NUMBER | KIND | DATE |
|--------|------|------|
|--------|------|------|

| | | | |
|-----------------------|--|----|--------------|
| PATENT INFORMATION: | US 6306421 | B1 | 20011023 |
| APPLICATION INFO.: | US 1997-829991 | | 19970331 (8) |
| RELATED APPLN. INFO.: | Continuation-in-part of Ser. No. US 1995-450793, filed on 25 May 1995, now patented, Pat. No. US 5811447
Continuation of Ser. No. US 1993-62451, filed on 13 May 1993, now abandoned Continuation-in-part of Ser. No. US 1993-11669, filed on 28 Jan 1993 Continuation-in-part of Ser. No. WO 1992-US8220, filed on 25 Sep 1992
Continuation-in-part of Ser. No. WO 1996-US2125, filed on 15 Feb 1996 Continuation-in-part of Ser. No. US 1995-389712, filed on 15 Feb 1995, now abandoned | | |

DOCUMENT TYPE: Utility

FILE SEGMENT: GRANTED

PRIMARY EXAMINER: Barts, Samuel

LEGAL REPRESENTATIVE: Schwegman, Lundberg, Woessner & Kluth, P.A.

NUMBER OF CLAIMS: 36

EXEMPLARY CLAIM: 1

NUMBER OF DRAWINGS: 30 Drawing Figure(s); 22 Drawing Page(s)

LINE COUNT: 5649

CAS INDEXING IS AVAILABLE FOR THIS PATENT.

L7 ANSWER 9 OF 11 USPATFULL on STN

TI Prevention and treatment of cardiovascular pathologies with tamoxifen analogues

AB A method for treating or preventing cardiovascular pathologies by administering a compound of the formula (I): ##STR1##

wherein Z is C.dbd.O or a covalent bond; Y is H or O(C.sub.1-C.sub.4)alkyl, R.sup.1 and R.sup.2 are individually (C.sub.1-C.sub.4)alkyl or together with N are a saturated heterocyclic group, R.sup.3 is ethyl or chloroethyl, R.sup.4 is H, R.sup.5 is I, O(C.sub.1-C.sub.4)alkyl or H with the proviso that when R.sup.4, R.sup.5, and R.sup.6 are H, R.sup.3 is not ethyl; or a pharmaceutically acceptable salt thereof, effective to elevate the level of TGF-beta to treat and/or prevent conditions such as atherosclerosis, thrombosis, myocardial infarction, and stroke is provided. Useful compounds include idoxifene, toremifene or salts thereof. Further provided is a method for identifying an agent that elevates the level of TGF-beta. Another embodiment of the invention is an assay or kit to determine TGF-beta in vitro. Also provided is a therapeutic method comprising inhibiting smooth muscle cell proliferation associated with procedural vascular trauma employing the administration of tamoxifen or structural analogs thereof, including compounds of formula (I).

CAS INDEXING IS AVAILABLE FOR THIS PATENT.

ACCESSION NUMBER: 2001:33286 USPATFULL
TITLE: Prevention and treatment of cardiovascular pathologies with tamoxifen analogues
INVENTOR(S): Grainger, David J., Cambridge, United Kingdom
Metcalfe, James C., Cambridge, United Kingdom
Kunz, Lawrence L., Redmond, WA, United States
Schroff, Robert W., Edmonds, WA, United States

PATENT ASSIGNEE(S) : NeoRx Corporation, Seattle, WA, United States (U.S. corporation)

| | NUMBER | KIND | DATE |
|-----------------------|--|------|--------------------------|
| PATENT INFORMATION: | US 6197789 | B1 | 20010306 |
| | WO 9640098 | | 19961219 |
| APPLICATION INFO.: | US 1997-973570 | | 19971205 (8) |
| | WO 1996-US10211 | | 19960607 |
| | | | 19980908 PCT 371 date |
| | | | 19980908 PCT 102(e) date |
| RELATED APPLN. INFO.: | Continuation-in-part of Ser. No. US 1995-478936, filed on 7 Jun 1995, now abandoned Continuation-in-part of Ser. No. US 1995-476735, filed on 7 Jun 1995, now patented, Pat. No. US 5595722 Continuation-in-part of Ser. No. US 1995-477393, filed on 7 Jun 1995 Continuation-in-part of Ser. No. US 1995-486334, filed on 7 Jun 1995, now patented, Pat. No. US 5770609 | | |
| DOCUMENT TYPE: | Utility | | |
| FILE SEGMENT: | Granted | | |
| PRIMARY EXAMINER: | Criares, Theodore J. | | |
| LEGAL REPRESENTATIVE: | Schwegman, Lundberg, Woessner & Kluth, P.A. | | |
| NUMBER OF CLAIMS: | 17 | | |
| EXEMPLARY CLAIM: | 1 | | |
| NUMBER OF DRAWINGS: | 8 Drawing Figure(s); 5 Drawing Page(s) | | |
| LINE COUNT: | 4577 | | |

CAS INDEXING IS AVAILABLE FOR THIS PATENT.

L7 ANSWER 10 OF 11 USPATFULL on STN

TI Therapeutic inhibitor of vascular smooth muscle cells

AB Methods are provided for inhibiting stenosis following vascular trauma or disease in a mammalian host, comprising administering to the host a therapeutically effective dosage of a therapeutic conjugate containing a vascular smooth muscle binding protein that associates in a specific manner with a cell surface of the vascular smooth muscle cell, coupled to a therapeutic agent dosage form that inhibits a cellular activity of the muscle cell. Methods are also provided for the direct and/or targeted delivery of therapeutic agents to vascular smooth muscle cells that cause a dilation and fixation of the vascular lumen by inhibiting smooth muscle cell contraction, thereby constituting a biological stent.

CAS INDEXING IS AVAILABLE FOR THIS PATENT.

ACCESSION NUMBER: 2001:4284 USPATFULL

TITLE: Therapeutic inhibitor of vascular smooth muscle cells

INVENTOR(S): Kunz, Lawrence L., Redmond, WA, United States

PATENT ASSIGNEE(S) : NeoRx Corporation, Seattle, WA, United States (U.S. corporation)

| | NUMBER | KIND | DATE |
|-----------------------|---|------|--------------|
| PATENT INFORMATION: | US 6171609 | B1 | 20010109 |
| APPLICATION INFO.: | US 1995-546794 | | 19951023 (8) |
| RELATED APPLN. INFO.: | Division of Ser. No. US 1995-389712, filed on 15 Feb 1995 | | |
| DOCUMENT TYPE: | Patent | | |
| FILE SEGMENT: | Granted | | |
| PRIMARY EXAMINER: | Barts, Samuel | | |
| LEGAL REPRESENTATIVE: | Schwegman, Lundberg, Woessner & Kluth P.A. | | |
| NUMBER OF CLAIMS: | 73 | | |
| EXEMPLARY CLAIM: | 1 | | |
| NUMBER OF DRAWINGS: | 27 Drawing Figure(s); 19 Drawing Page(s) | | |
| LINE COUNT: | 4091 | | |

CAS INDEXING IS AVAILABLE FOR THIS PATENT.

L7 ANSWER 11 OF 11 USPATFULL on STN
TI Therapeutic inhibitor of vascular smooth muscle cells
AB Methods are provided for inhibiting stenosis or **restenosis**
following vascular trauma in a mammalian host, comprising administering
to the host a therapeutically effective dosage of a cytostatic agent
and/or cytoskeletal inhibitor so as to biologically stent the
traumatized vessel. Also provided is a method to inhibit or reduce
vascular remodeling following vascular trauma, comprising administering
an effective amount of a cytoskeletal inhibitor. Further provided are
pharmaceutical compositions and kits comprising the therapeutic agents
of the invention.

CAS INDEXING IS AVAILABLE FOR THIS PATENT.

ACCESSION NUMBER: 1999:141975 USPATFULL
TITLE: Therapeutic inhibitor of vascular smooth muscle cells
INVENTOR(S): Kunz, Lawrence L., Redmond, WA, United States
Klein, Richard A., Edmonds, WA, United States
Reno, John M., Brier, WA, United States
PATENT ASSIGNEE(S): NeoRx Corporation, Seattle, WA, United States (U.S.
corporation)

| | NUMBER | KIND | DATE |
|-----------------------|--|------|--------------|
| PATENT INFORMATION: | US 5981568 | | 19991109 |
| APPLICATION INFO.: | US 1997-829685 | | 19970331 (8) |
| RELATED APPLN. INFO.: | Continuation-in-part of Ser. No. US 1995-450793, filed on 25 May 1995, now patented, Pat. No. US 5811447 which is a continuation of Ser. No. US 1993-62451, filed on 13 May 1993, now abandoned And a continuation-in-part of Ser. No. WO 1996-US2125, filed on 15 Feb 1996 which is a continuation-in-part of Ser. No. US 1995-389712, filed on 15 Feb 1995 | | |
| DOCUMENT TYPE: | Utility | | |
| FILE SEGMENT: | Granted | | |
| PRIMARY EXAMINER: | Barts, Samuel | | |
| LEGAL REPRESENTATIVE: | Schwegman, Lundberg, Woessner & Kluth, P.A. | | |
| NUMBER OF CLAIMS: | 56 | | |
| EXEMPLARY CLAIM: | 1 | | |
| NUMBER OF DRAWINGS: | 30 Drawing Figure(s); 22 Drawing Page(s) | | |
| LINE COUNT: | 5553 | | |

CAS INDEXING IS AVAILABLE FOR THIS PATENT.

=> e kunz, l/au
E1 1 KUNZ YVONNE M/AU
E2 1 KUNZ YW/AU
E3 0 --> KUNZ, L/AU
E4 1 KUNZA A/AU
E5 1 KUNZACK H/AU
E6 2 KUNZAGK H/AU
E7 5 KUNZE/AU
E8 1 KUNZE 13 05 M/AU
E9 55 KUNZE A/AU
E10 4 KUNZE A G/AU
E11 4 KUNZE A K/AU
E12 1 KUNZE A M/AU

=> d his

(FILE 'HOME' ENTERED AT 17:30:29 ON 09 MAR 2006)

FILE 'MEDLINE, USPATFULL, DGENE, EMBASE, WPIDS, BIOSIS' ENTERED AT

17:30:45 ON 09 MAR 2006
L1 162469 S RESTENOSIS
L2 1862352 S L1 AND REDUCTION OR INHIBITION
L3 1295 S (REDUCE RESTENOSIS)
L4 630 S L3 AND L2
L5 8 S L4 AND (FOLLOWING VASCULAR SURGERY)
L6 42 S L4 AND (NON-Biodegradable)
L7 11 S L6 AND (SUSTAINED RELEASE DOSAGE FORM)
E KUNZ, L/AU

=> s smooth muscle cell migration
L8 2597 SMOOTH MUSCLE CELL MIGRATION

=> s 18 and inhibition
L9 1082 L8 AND INHIBITION

=> s 19 and (inhibit proliferation)
L10 31 L9 AND (INHIBIT PROLIFERATION)

=> s 110 and (taxol or taxol analog or taxotere)
L11 12 L10 AND (TAXOL OR TAXOL ANALOG OR TAXOTERE)

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L11 ANSWER 1 OF 12 USPATFULL on STN

TI Therapeutic inhibitor of vascular smooth muscle cells

AB Methods are provided for inhibiting stenosis following vascular trauma or disease in a mammalian host, comprising administering to the host a therapeutically effective dosage of a therapeutic conjugate containing a vascular smooth muscle binding protein that associates in a specific manner with a cell surface of the vascular smooth muscle cell, coupled to a therapeutic agent dosage form that inhibits a cellular activity of the muscle cell. Methods are also provided for the direct and/or targeted delivery of therapeutic agents to vascular smooth muscle cells that cause a dilation and fixation of the vascular lumen by inhibiting smooth muscle cell contraction, thereby constituting a biological stent.

CAS INDEXING IS AVAILABLE FOR THIS PATENT.

ACCESSION NUMBER: 2004:279923 USPATFULL

TITLE: Therapeutic inhibitor of vascular smooth muscle cells

INVENTOR(S): Kunz, Lawrence L., Redmond, WA, UNITED STATES

PATENT ASSIGNEE(S): Scimed Life Systems, Inc. (U.S. corporation)

| | NUMBER | KIND | DATE |
|-----------------------|--|------|---------------|
| PATENT INFORMATION: | US 2004219223 | A1 | 20041104 |
| APPLICATION INFO.: | US 2004-860486 | A1 | 20040602 (10) |
| RELATED APPLN. INFO.: | Continuation of Ser. No. US 2002-190211, filed on 3 Jul 2002, ABANDONED Continuation of Ser. No. US 1997-894350, filed on 10 Oct 1997, ABANDONED A 371 of International Ser. No. WO 1996-US2125, filed on 15 Feb 1996, PENDING | | |
| DOCUMENT TYPE: | Utility | | |
| FILE SEGMENT: | APPLICATION | | |
| LEGAL REPRESENTATIVE: | JONES DAY, 222 EAST 41ST ST, NEW YORK, NY, 10017 | | |
| NUMBER OF CLAIMS: | 32 | | |
| EXEMPLARY CLAIM: | 1 | | |
| NUMBER OF DRAWINGS: | 20 Drawing Page(s) | | |
| LINE COUNT: | 3811 | | |

CAS INDEXING IS AVAILABLE FOR THIS PATENT.

L11 ANSWER 2 OF 12 USPATFULL on STN

TI Use of biomolecular targets in the treatment and visualization of brain

AB tumors
The present invention relates to the use of proteins that are differentially expressed in primary brain tumor tissues, as compared to normal brain tissues, as biomolecular targets for brain tumor treatment therapies. Specifically, the present invention relates to the use of therapeutic and imaging agents, which specifically bind to one or more of the identified brain tumor protein targets. The present invention also provides compounds and pharmaceutically acceptable compositions for administration in the methods of the invention. Nucleic acid probes specific for the spliced mRNA encoding these variants and affinity reagents specific for the novel proteins are also provided.

CAS INDEXING IS AVAILABLE FOR THIS PATENT.

ACCESSION NUMBER: 2004:1822 USPATFULL

TITLE: Use of biomolecular targets in the treatment and visualization of brain tumors

INVENTOR(S): Nagavarapu, Usha, San Jose, CA, UNITED STATES
Shivak, David A., San Mateo, CA, UNITED STATES
Chin, Daniel J., Foster City, CA, UNITED STATES
Foehr, Erik D., Novato, CA, UNITED STATES

| | NUMBER | KIND | DATE |
|---------------------|----------------|------|---------------|
| PATENT INFORMATION: | US 2004001841 | A1 | 20040101 |
| APPLICATION INFO.: | US 2003-407365 | A1 | 20030403 (10) |

| | NUMBER | DATE |
|-----------------------|---|---------------|
| PRIORITY INFORMATION: | US 2002-369743P | 20020403 (60) |
| DOCUMENT TYPE: | Utility | |
| FILE SEGMENT: | APPLICATION | |
| LEGAL REPRESENTATIVE: | BOZICEVIC, FIELD & FRANCIS LLP, 200 MIDDLEFIELD RD,
SUITE 200, MENLO PARK, CA, 94025 | |
| NUMBER OF CLAIMS: | 49 | |
| EXEMPLARY CLAIM: | 1 | |
| NUMBER OF DRAWINGS: | 9 Drawing Page(s) | |
| LINE COUNT: | 4185 | |

CAS INDEXING IS AVAILABLE FOR THIS PATENT.

L11 ANSWER 3 OF 12 USPATFULL on STN

TI Compositions and methods for treatment of hyperplasia

AB In accordance with the present invention, there are provided methods for treating hyperplasia in a subject in need thereof. In another aspect of the invention, there are provided methods for reducing neointimal hyperplasia associated with vascular interventional procedures. Formulations contemplated for use herein comprise proteins and at least one pharmaceutically active agent.

CAS INDEXING IS AVAILABLE FOR THIS PATENT.

ACCESSION NUMBER: 2003:283081 USPATFULL

TITLE: Compositions and methods for treatment of hyperplasia

INVENTOR(S): Desai, Neil P., Los Angeles, CA, UNITED STATES

Soon-Shiong, Patrick, Los Angeles, CA, UNITED STATES

| | NUMBER | KIND | DATE |
|-----------------------|---|------|--------------|
| PATENT INFORMATION: | US 2003199425 | A1 | 20031023 |
| APPLICATION INFO.: | US 2001-847945 | A1 | 20010502 (9) |
| RELATED APPLN. INFO.: | Continuation-in-part of Ser. No. US 2000-446783, filed
on 16 May 2000, PENDING | | |

| NUMBER | DATE |
|--------|------|
|--------|------|

PRIORITY INFORMATION: WO 1998-US13272 19980626
US 1997-51021P 19970627 (60)
DOCUMENT TYPE: Utility
FILE SEGMENT: APPLICATION
LEGAL REPRESENTATIVE: FOLEY & LARDNER, P.O. BOX 80278, SAN DIEGO, CA,
92138-0278
NUMBER OF CLAIMS: 30
EXEMPLARY CLAIM: 1
NUMBER OF DRAWINGS: 2 Drawing Page(s)
LINE COUNT: 1243
CAS INDEXING IS AVAILABLE FOR THIS PATENT.

L11 ANSWER 4 OF 12 USPATFULL on STN

TI Therapeutic inhibitor of vascular smooth muscle cells
AB Methods are provided for inhibiting stenosis following vascular trauma or disease in a mammalian host, comprising administering to the host a therapeutically effective dosage of a therapeutic conjugate containing a vascular smooth muscle binding protein that associates in a specific manner with a cell surface of the vascular smooth muscle cell, coupled to a therapeutic agent dosage form that inhibits a cellular activity of the muscle cell. Methods are also provided for the direct and/or targeted delivery of therapeutic agents to vascular smooth muscle cells that cause a dilation and fixation of the vascular lumen by inhibiting smooth muscle cell contraction, thereby constituting a biological stent.

CAS INDEXING IS AVAILABLE FOR THIS PATENT.

ACCESSION NUMBER: 2003:121249 USPATFULL
TITLE: Therapeutic inhibitor of vascular smooth muscle cells
INVENTOR(S): Kunz, Lawrence L., Redmond, WA, UNITED STATES
PATENT ASSIGNEE(S): NeoRx Corporation (U.S. corporation)

| | NUMBER | KIND | DATE |
|--|--|------|---------------|
| PATENT INFORMATION: | US 2003083733 | A1 | 20030501 |
| APPLICATION INFO.: | US 2002-190211 | A1 | 20020703 (10) |
| RELATED APPLN. INFO.: | Continuation of Ser. No. US 1997-894350, filed on 10 Oct 1997, ABANDONED A 371 of International Ser. No. WO 1996-US2125, filed on 15 Feb 1996, PENDING | | |
| DOCUMENT TYPE: | Utility | | |
| FILE SEGMENT: | APPLICATION | | |
| LEGAL REPRESENTATIVE: | SCHWEGMAN, LUNDBERG, WOESSNER & KLUTH, P.A., P.O. BOX 2938, MINNEAPOLIS, MN, 55402 | | |
| NUMBER OF CLAIMS: | 18 | | |
| EXEMPLARY CLAIM: | 1 | | |
| NUMBER OF DRAWINGS: | 20 Drawing Page(s) | | |
| LINE COUNT: | 3787 | | |
| CAS INDEXING IS AVAILABLE FOR THIS PATENT. | | | |

L11 ANSWER 5 OF 12 USPATFULL on STN

TI Therapeutic inhibitor of vascular smooth muscle cells
AB Methods are provided for inhibiting stenosis following vascular trauma or disease in a mammalian host, comprising administering to the host a therapeutically effective dosage of a therapeutic conjugate containing a vascular smooth muscle binding protein that associates in a specific manner with a cell surface of the vascular smooth muscle cell, coupled to a therapeutic agent dosage form that inhibits a cellular activity of the muscle cell. Methods are also provided for the direct and/or targeted delivery of therapeutic agents to vascular smooth muscle cells that cause a dilation and fixation of the vascular lumen by inhibiting smooth muscle cell contraction, thereby constituting a biological stent.

CAS INDEXING IS AVAILABLE FOR THIS PATENT.

ACCESSION NUMBER: 2003:33501 USPATFULL

TITLE: Therapeutic inhibitor of vascular smooth muscle cells
INVENTOR(S): Kunz, Lawrence L., Redmond, WA, United States
Klein, Richard A., Lynnwood, WA, United States
PATENT ASSIGNEE(S): NeoRx Corporation, Seattle, WA, United States (U.S. corporation)

| | NUMBER | KIND | DATE |
|--|--|------|--------------|
| PATENT INFORMATION: | US 6515009 | B1 | 20030204 |
| APPLICATION INFO.: | US 1995-389712 | | 19950215 (8) |
| RELATED APPLN. INFO.: | Continuation-in-part of Ser. No. US 1995-450793, filed on 25 May 1995 Continuation of Ser. No. US 1993-62451, filed on 13 May 1993 Continuation-in-part of Ser. No. US 1993-11669, filed on 28 Jan 1993, now abandoned Continuation-in-part of Ser. No. WO 1992-US8220, filed on 25 Sep 1992 Continuation-in-part of Ser. No. US 1991-767254, filed on 27 Sep 1991 | | |
| DOCUMENT TYPE: | Utility | | |
| FILE SEGMENT: | GRANTED | | |
| PRIMARY EXAMINER: | Barts, Samuel | | |
| LEGAL REPRESENTATIVE: | Schwegman, Lundberg, Woessner & Kluth, P.A. | | |
| NUMBER OF CLAIMS: | 72 | | |
| EXEMPLARY CLAIM: | 1 | | |
| NUMBER OF DRAWINGS: | 27 Drawing Figure(s); 19 Drawing Page(s) | | |
| LINE COUNT: | 4378 | | |
| CAS INDEXING IS AVAILABLE FOR THIS PATENT. | | | |

L11 ANSWER 6 OF 12 USPATFULL on STN

TI Therapeutic inhibitor of vascular smooth muscle cells
AB Methods are provided for inhibiting stenosis following vascular trauma or disease in a mammalian host, comprising administering to the host a therapeutically effective dosage of a therapeutic conjugate containing a vascular smooth muscle binding protein that associates in a specific manner with a cell surface of the vascular smooth muscle cell, coupled to a therapeutic agent dosage form that inhibits a cellular activity of the muscle cell. Methods are also provided for the direct and/or targeted delivery of therapeutic agents to vascular smooth muscle cells that cause a dilation and fixation of the vascular lumen by inhibiting smooth muscle cell contraction, thereby constituting a biological stent.

CAS INDEXING IS AVAILABLE FOR THIS PATENT.

ACCESSION NUMBER: 2002:72924 USPATFULL
TITLE: Therapeutic inhibitor of vascular smooth muscle cells
INVENTOR(S): Kunz, Lawrence L., Redmond, WA, UNITED STATES
Klein, Richard A., Lynnwood, WA, UNITED STATES
PATENT ASSIGNEE(S): NeoRx Corporation. (U.S. corporation)

| | NUMBER | KIND | DATE |
|-----------------------|---|------|--------------|
| PATENT INFORMATION: | US 2002040064 | A1 | 20020404 |
| | US 6599928 | B2 | 20030729 |
| APPLICATION INFO.: | US 2001-910387 | A1 | 20010720 (9) |
| RELATED APPLN. INFO.: | Continuation of Ser. No. US 1995-389712, filed on 15 Feb 1995, PENDING Continuation-in-part of Ser. No. US 1993-11669, filed on 28 Jan 1993, ABANDONED Continuation-in-part of Ser. No. WO 1992-US8220, filed on 25 Sep 1992, UNKNOWN | | |
| DOCUMENT TYPE: | Utility | | |
| FILE SEGMENT: | APPLICATION | | |
| LEGAL REPRESENTATIVE: | SCHWEGMAN, LUNDBERG, WOESSNER & KLUTH, P.A., P.O. BOX 2938, MINNEAPOLIS, MN, 55402 | | |
| NUMBER OF CLAIMS: | 25 | | |
| EXEMPLARY CLAIM: | 1 | | |

NUMBER OF DRAWINGS: 19 Drawing Page(s)
LINE COUNT: 3758
CAS INDEXING IS AVAILABLE FOR THIS PATENT.

L11 ANSWER 7 OF 12 USPATFULL on STN

TI Therapeutic inhibitor of vascular smooth muscle cells
AB Methods are provided for inhibiting stenosis following vascular trauma or disease in a mammalian host, comprising administering to the host a therapeutically effective dosage of a therapeutic conjugate containing a vascular smooth muscle binding protein that associates in a specific manner with a cell surface of the vascular smooth muscle cell, coupled to a therapeutic agent dosage form that inhibits a cellular activity of the muscle cell. Methods are also provided for the direct and/or targeted delivery of therapeutic agents to vascular smooth muscle cells that cause a dilation and fixation of the vascular lumen by inhibiting smooth muscle cell contraction, thereby constituting a biological stent. Also discussed are mechanisms for in vivo vascular smooth muscle cell proliferation modulation, agents that impact those mechanisms and protocols for the use of those agents.

CAS INDEXING IS AVAILABLE FOR THIS PATENT.

ACCESSION NUMBER: 2002:22439 USPATFULL
TITLE: Therapeutic inhibitor of vascular smooth muscle cells
INVENTOR(S): Kunz, Lawrence L., Redmond, WA, UNITED STATES
Klein, Richard A., Lynnwood, WA, UNITED STATES.
Reno, John M., Brier, WA, UNITED STATES
Grainger, David J., Cambridge, UNITED KINGDOM
Metcalfe, James C., Cambridge, UNITED KINGDOM
Weissberg, Peter L., Cambridge, UNITED KINGDOM
Anderson, Peter G., Birmingham, AL, UNITED STATES
PATENT ASSIGNEE(S): NeoRx Corporation (U.S. corporation)

| | NUMBER | KIND | DATE |
|--|--|------|--------------|
| PATENT INFORMATION: | US 2002013275 | A1 | 20020131 |
| APPLICATION INFO.: | US 2001-910388 | A1 | 20010720 (9) |
| RELATED APPLN. INFO.: | Continuation of Ser. No. US 1999-470662, filed on 22 Dec 1999, GRANTED, Pat. No. US 6268390 Continuation of Ser. No. US 1998-113733, filed on 10 Jul 1998, GRANTED, Pat. No. US 6074659 Continuation of Ser. No. US 1995-450793, filed on 25 May 1995, GRANTED, Pat. No. US 5811447 Continuation of Ser. No. US 1993-62451, filed on 13 May 1993, ABANDONED Continuation-in-part of Ser. No. US 1993-11669, filed on 28 Jan 1993, ABANDONED Continuation-in-part of Ser. No. WO 1992-US8220, filed on 25 Sep 1992, UNKNOWN | | |
| DOCUMENT TYPE: | Utility | | |
| FILE SEGMENT: | APPLICATION | | |
| LEGAL REPRESENTATIVE: | SCHWEGMAN, LUNDBERG, WOESSNER & KLUTH, P.O. BOX 2938, MINNEAPOLIS, MN, 55402 | | |
| NUMBER OF CLAIMS: | 20 | | |
| EXEMPLARY CLAIM: | 1 | | |
| NUMBER OF DRAWINGS: | 21 Drawing Page(s) | | |
| LINE COUNT: | 4431 | | |
| CAS INDEXING IS AVAILABLE FOR THIS PATENT. | | | |

L11 ANSWER 8 OF 12 USPATFULL on STN

TI Therapeutic inhibitor of vascular smooth muscle cells
AB Methods are provided for inhibiting stenosis following vascular trauma or disease in a mammalian host, comprising administering to the host a therapeutically effective dosage of a therapeutic conjugate containing a vascular smooth muscle binding protein that associates in a specific manner with a cell surface of the vascular smooth muscle cell, coupled

to a therapeutic agent dosage form that inhibits a cellular activity of the muscle cell. Methods are also provided for the direct and/or targeted delivery of therapeutic agents to vascular smooth muscle cells that cause a dilation and fixation of the vascular lumen by inhibiting smooth muscle cell contraction, thereby constituting a biological stent. Also discussed are mechanisms for in vivo vascular smooth muscle cell proliferation modulation, agents that impact those mechanisms and protocols for the use of those agents.

CAS INDEXING IS AVAILABLE FOR THIS PATENT.

ACCESSION NUMBER: 2001:121497 USPATFULL
TITLE: Therapeutic inhibitor of vascular smooth muscle cells
INVENTOR(S): Kunz, Lawrence L., Redmond, WA, United States
PATENT ASSIGNEE(S): NeoRx Corporation, Seattle, WA, United States (U.S. corporation)

| | NUMBER | KIND | DATE |
|-----------------------|---|------|--------------|
| PATENT INFORMATION: | US 6268390 | B1 | 20010731 |
| APPLICATION INFO.: | US 1999-470662 | | 19991222 (9) |
| RELATED APPLN. INFO.: | Continuation of Ser. No. US 1998-113733, filed on 10 Jul 1998, now patented, Pat. No. US 6074659
Continuation of Ser. No. US 1995-450793, filed on 25 May 1995, now patented, Pat. No. US 5811447
Continuation of Ser. No. US 1993-62451, filed on 13 May 1993, now abandoned Continuation-in-part of Ser. No. US 1993-11669, filed on 28 Jan 1993, now abandoned
Continuation-in-part of Ser. No. WO 1992-US8220, filed on 25 Sep 1992 Continuation-in-part of Ser. No: US 1991-767254, filed on 27 Sep 1991, now abandoned | | |
| DOCUMENT TYPE: | Utility | | |
| FILE SEGMENT: | GRANTED | | |
| PRIMARY EXAMINER: | Carlson, Karen Cochrane | | |
| ASSISTANT EXAMINER: | Robinson, Patricia | | |
| LEGAL REPRESENTATIVE: | Schwegman, Lundberg, Woessner & Kluth, P.A. | | |
| NUMBER OF CLAIMS: | 18 | | |
| EXEMPLARY CLAIM: | 1 | | |
| NUMBER OF DRAWINGS: | 29 Drawing Figure(s); 21 Drawing Page(s) | | |
| LINE COUNT: | 4342 | | |

CAS INDEXING IS AVAILABLE FOR THIS PATENT.

L11 ANSWER 9 OF 12 USPATFULL on STN

TI Therapeutic inhibitor of vascular smooth muscle cells
AB Methods are provided for inhibiting stenosis following vascular trauma or disease in a mammalian host, comprising administering to the host a therapeutically effective dosage of a therapeutic conjugate containing a vascular smooth muscle binding protein that associates in a specific manner with a cell surface of the vascular smooth muscle cell, coupled to a therapeutic agent dosage form that inhibits a cellular activity of the muscle cell. Methods are also provided for the direct and/or targeted delivery of therapeutic agents to vascular smooth muscle cells that cause a dilation and fixation of the vascular lumen by inhibiting smooth muscle cell contraction, thereby constituting a biological stent.

CAS INDEXING IS AVAILABLE FOR THIS PATENT.

ACCESSION NUMBER: 2001:4284 USPATFULL
TITLE: Therapeutic inhibitor of vascular smooth muscle cells
INVENTOR(S): Kunz, Lawrence L., Redmond, WA, United States
PATENT ASSIGNEE(S): NeoRx Corporation, Seattle, WA, United States (U.S. corporation)

| NUMBER | KIND | DATE |
|--------|------|------|
| ----- | | |

PATENT INFORMATION: US 6171609 B1 20010109
APPLICATION INFO.: US 1995-546794 19951023 (8)
RELATED APPLN. INFO.: Division of Ser. No. US 1995-389712, filed on 15 Feb
1995
DOCUMENT TYPE: Patent
FILE SEGMENT: Granted
PRIMARY EXAMINER: Barts, Samuel
LEGAL REPRESENTATIVE: Schwegman, Lundberg, Woessner & Kluth P.A.
NUMBER OF CLAIMS: 73
EXEMPLARY CLAIM: 1
NUMBER OF DRAWINGS: 27 Drawing Figure(s); 19 Drawing Page(s)
LINE COUNT: 4091
CAS INDEXING IS AVAILABLE FOR THIS PATENT.

L11 ANSWER 10 OF 12 USPATFULL on STN

TI Therapeutic inhibitor of vascular smooth muscle cells
AB Methods are provided for inhibiting stenosis following vascular trauma or disease in a mammalian host, comprising administering to the host a therapeutically effective dosage of a therapeutic conjugate containing a vascular smooth muscle binding protein that associates in a specific manner with a cell surface of the vascular smooth muscle cell, coupled to a therapeutic agent dosage form that inhibits a cellular activity of the muscle cell. Methods are also provided for the direct and/or targeted delivery of therapeutic agents to vascular smooth muscle cells that cause a dilation and fixation of the vascular lumen by inhibiting smooth muscle cell contraction, thereby constituting a biological stent. Also discussed are mechanisms for in vivo vascular smooth muscle cell proliferation modulation, agents that impact those mechanisms and protocols for the use of those agents.

CAS INDEXING IS AVAILABLE FOR THIS PATENT.

ACCESSION NUMBER: 2000:73925 USPATFULL
TITLE: Therapeutic inhibitor of vascular smooth muscle cells
INVENTOR(S): Kunz, Lawrence L., Redmond, WA, United States
Klein, Richard A., Lynnwood, WA, United States
Reno, John M., Brier, WA, United States
Grainger, David J., Cambridge, United Kingdom
Metcalfe, James C., Cambridge, United Kingdom
Weissberg, Peter L., Cambridge, United Kingdom
Anderson, Peter G., Birmingham, AL, United States
PATENT ASSIGNEE(S): NoeRx Corporation, Seattle, WA, United States (U.S. corporation)

| NUMBER | KIND | DATE |
|---|---|--------------|
| US 6074659 | | 20000613 |
| US 1998-113733 | | 19980710 (9) |
| RELATED APPLN. INFO.: Continuation of Ser. No. US 1995-450793, filed on 25 May 1995, now patented, Pat. No. US 5811447 which is a continuation of Ser. No. US 1993-62451, filed on 13 May 1993, now abandoned which is a continuation-in-part of Ser. No. US 1993-11669, filed on 28 Jan 1993, now abandoned which is a continuation-in-part of Ser. No. WO 1992-US8220, filed on 25 Sep 1992 which is a continuation-in-part of Ser. No. US 1991-767254, filed on 27 Sep 1991, now abandoned | | |
| DOCUMENT TYPE: | Utility | |
| FILE SEGMENT: | Granted | |
| PRIMARY EXAMINER: | Barts, Samuel | |
| LEGAL REPRESENTATIVE: | Schwegman, Lundberg Woessner & Kluth P.A. | |
| NUMBER OF CLAIMS: | 26 | |
| EXEMPLARY CLAIM: | 1 | |
| NUMBER OF DRAWINGS: | 29 Drawing Figure(s); 21 Drawing Page(s) | |

LINE COUNT: 4818
CAS INDEXING IS AVAILABLE FOR THIS PATENT.

L11 ANSWER 11 OF 12 USPATFULL on STN

TI Therapeutic inhibitor of vascular smooth muscle cells
AB Methods are provided for inhibiting stenosis following vascular trauma or disease in a mammalian host, comprising administering to the host a therapeutically effective dosage of a therapeutic conjugate containing a vascular smooth muscle binding protein that associates in a specific manner with a cell surface of the vascular smooth muscle cell, coupled to a therapeutic agent dosage form that inhibits a cellular activity of the muscle cell. Methods are also provided for the direct and/or targeted delivery of therapeutic agents to vascular smooth muscle cells that cause a dilation and fixation of the vascular lumen by inhibiting smooth muscle cell contraction, thereby constituting a biological stent. Also discussed are mechanisms for in vivo vascular smooth muscle cell proliferation modulation, agents that impact those mechanisms and protocols for the use of those agents.

CAS INDEXING IS AVAILABLE FOR THIS PATENT.

ACCESSION NUMBER: 1998:115762 USPATFULL
TITLE: Therapeutic inhibitor of vascular smooth muscle cells
INVENTOR(S): Kunz, Lawrence L., Redmond, WA, United States
Klein, Richard A., Lynnwood, WA, United States
Reno, John M., Brier, WA, United States
Grainger, David J., Cambridge, England
Metcalfe, James C., Cambridge, England
Weissberg, Peter L., Cambridge, England
Anderson, Peter G., Birmingham, AL, United States
PATENT ASSIGNEE(S): NeoRx Corporation, Seattle, WA, United States (U.S. corporation)

| | NUMBER | KIND | DATE |
|-----------------------|--|------|--------------|
| PATENT INFORMATION: | US 5811447 | | 19980922 |
| APPLICATION INFO.: | US 4507932 | | 19950525 (8) |
| RELATED APPLN. INFO.: | Continuation of Ser. No. 62451, filed on 13 May 1993, now abandoned which is a continuation-in-part of Ser. No. 11669, filed on 28 Jan 1993, now abandoned | | |
| DOCUMENT TYPE: | Utility | | |
| FILE SEGMENT: | Granted | | |
| PRIMARY EXAMINER: | Barts, Samuel | | |
| LEGAL REPRESENTATIVE: | Schwegman, Lundberg, Woessner & Kluth, P.A. | | |
| NUMBER OF CLAIMS: | 18 | | |
| EXEMPLARY CLAIM: | 1 | | |
| NUMBER OF DRAWINGS: | 29 Drawing Figure(s); 21 Drawing Page(s) | | |
| LINE COUNT: | 4812 | | |

CAS INDEXING IS AVAILABLE FOR THIS PATENT.

L11 ANSWER 12 OF 12 USPATFULL on STN

TI Therapeutic inhibitor of vascular smooth muscle cells
AB Methods are provided for inhibiting stenosis following vascular trauma or disease in a mammalian host, comprising administering to the host a therapeutically effective dosage of a therapeutic conjugate containing a vascular smooth muscle binding protein that associates in a specific manner with a cell surface of the vascular smooth muscle cell, coupled to a therapeutic agent dosage form that inhibits a cellular activity of the muscle cell. Methods are also provided for the direct and/or targeted delivery of therapeutic agents to vascular smooth muscle cells that cause a dilation and fixation of the vascular lumen by inhibiting smooth muscle cell contraction, thereby constituting a biological stent. Also discussed are mechanisms for in vivo vascular smooth muscle cell proliferation modulation, agents that impact those mechanisms and

protocols for the use of those agents.

CAS INDEXING IS AVAILABLE FOR THIS PATENT.

ACCESSION NUMBER: 1998:33947 USPATFULL
TITLE: Therapeutic inhibitor of vascular smooth muscle cells
INVENTOR(S): Kunz, Lawrence L., Redmond, WA, United States
Klein, Richard A., Lynnwood, WA, United States
Reno, John M., Brier, WA, United States
Grainger, David J., Cambridge, United Kingdom
Metcalfe, James C., Cambridge, United Kingdom
Weissberg, Peter L., Cambridge, United Kingdom
Anderson, Peter G., Brimingham, AL, United States
PATENT ASSIGNEE(S): NeoRx Corporation, Seattle, WA, United States (U.S.
corporation)

| | NUMBER | KIND | DATE |
|-----------------------|---|------|--------------|
| PATENT INFORMATION: | US 5733925 | | 19980331 |
| APPLICATION INFO.: | US 1996-738733 | | 19961028 (8) |
| RELATED APPLN. INFO.: | Division of Ser. No. US 1995-450793, filed on 25 May 1995 which is a continuation of Ser. No. US 1993-62451, filed on 13 May 1993, now abandoned which is a continuation-in-part of Ser. No. US 1993-11669, filed on 28 Jan 1993, now abandoned | | |
| DOCUMENT TYPE: | Utility | | |
| FILE SEGMENT: | Granted | | |
| PRIMARY EXAMINER: | Barts, Samuel | | |
| LEGAL REPRESENTATIVE: | Schwegman, Lundberg, Woessner & Kluth, P.A. | | |
| NUMBER OF CLAIMS: | 28 | | |
| EXEMPLARY CLAIM: | 1 | | |
| NUMBER OF DRAWINGS: | 29 Drawing Figure(s); 21 Drawing Page(s) | | |
| LINE COUNT: | 4753 | | |

CAS INDEXING IS AVAILABLE FOR THIS PATENT.